



## TV Antennas and Accessories for Motorhomes and Caravans







New head office Teleco France

## A perfect harmony of Contours, Functions and construction Materials

1) Ideal design to match any Camper style in terms of both exterior contours and interior decoration details.

2) Continuous technical innovation, the fruit of many years of experience, renewed and updated ready for future challenges thanks to the enthusiasm, imagination and skills of a team of young but expert designers at Teleco.

3) Materials chosen on the basis of strict quality checks and tests, to guarantee aesthetic stability over time and prolonged life for every product.

These three simple 'ingredients', the basis of our success in all the European markets, can be found combined in every Teleco product.





Ever-closer relations with customers so as to provide them with good advice at the time of purchase and effective assistance throughout the product life cycle.

It's not always possible to eliminate a problem at its root because it can be caused by local situations or even chance occurrences; but what is certain is that the response must be fast, almost instantaneous.

Hence one of Teleco's key values: dealing with the customer's problem and resolving it immediately.

1) Teleco has a Service Center, open daily. Here, customers can obtain advice regarding the choice of product most likely to satisfy their needs or obtain immediate help to resolve minor technical problems.

2) For more complex technical problems requiring a more detailed explanation a 24-hour e-mail Public Support Service is available.






3) Independent Servicing and Repair Centers are available throughout Europe, providing a fast, expert response to all customer requests; Teleco also provides constant customer support by organising three-monthly training and updating courses that are attended by professional technicians from all over Europe.



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## Terrestrial directional Antennas

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## TV

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*Flat-profile Just  
15-17 cm high  
(with closed dish)  
on the vehicle roof*

*Incorporated safety  
system, with automatic  
lowering of the antenna  
when the vehicle is  
started.*

## Automatic Pointing Satellite Antennas

### *Simple to install*

- Comes complete with cables and accessories.
- Aluminium mounting plate which allows you to secure the drive unit to the roof using high strength glue (SIKAFLEX) without having to drill holes.
- Direct connection to a 12 Volt battery

### *Easy to use*

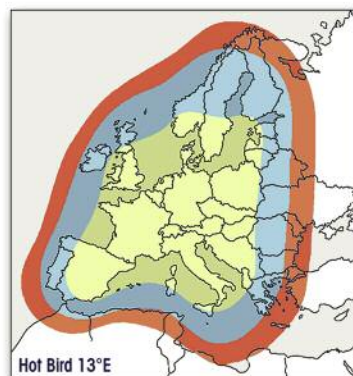
- Just press any key to align with the satellite.
- Average satellite search time: 60 seconds.
- All models with remote control are equipped with a MIR infrared remote control expander, which can easily be applied on a wall or on the television: this allows all remote control operations to be carried out even if the control unit is inaccessible.

### *High Technology*

- Control Unit designed according to the miniaturised SMD technology on Multilayer boards.
- Reprogrammable software for future upgrading
- Dishes with Universal LNB for receiving Digital programs HD, SD.

### Footprint tips to choose the correct dish size

Reception of TV and Radio signals broadcast by the 5 groups of satellites is guaranteed within the darker (footprint) areas. It should be remembered that signals become weaker when the sky is overcast or rainy, and this could lead to images with macroblocks, or the images could even disappear. When choosing the satellite system to be installed on your vehicle, make sure the dimensions of the parabola are suited for receiving the satellite signals in your viewing area.





**15-17cm FLAT PROFILE**



*Streamline antitwist arm.*

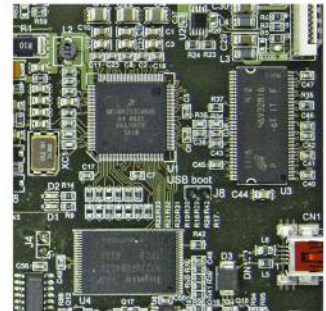
*Aluminium casting with special DIE-CASTING injection technology (lighter and stiffer) with corrosion-proof epoxy painting.*



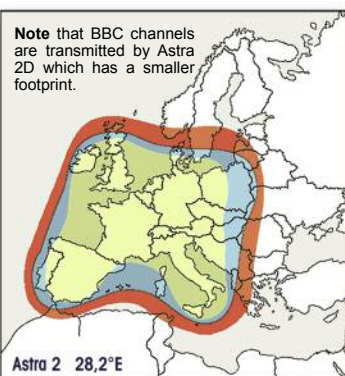
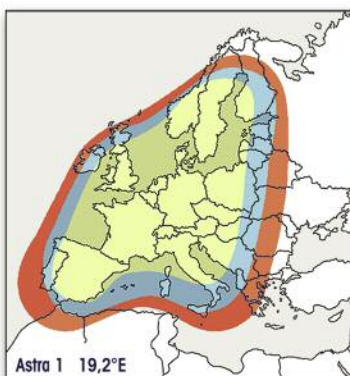
*Motor-powered system with steel and bronze gears for perfect, stable satellite tracking.. maintenance-free!!!*



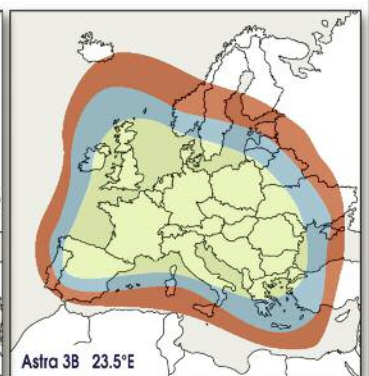
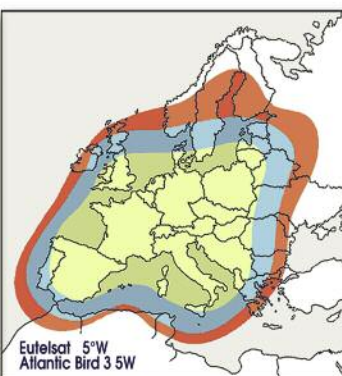
*Many options for sophisticated systems  
GPS SKEW - TWIN- QUAD*



*Internal unit control-electronic system*



**Note** that BBC channels are transmitted by Astra 2D which has a smaller footprint.





# FLATSAT EASY



FLAT PROFILE 15-17cm

## Automatic satellite antenna with wall panel

Stand-alone pointing system with wall-mounted control panel, it can be coupled to any Satellite Receiver (not supplied). Especially suitable for connection to receivers TivuSat, TNT Sat, FranSat, Canal Digital, TV Vlaanderen, SKY, Canal satellite, Bis Television etc.

- Stores all the most important satellites: Hot Bird, Astra 19, Astra 23, Eutelsat 5W, Astra 4, Astra 28, Thor
- The safety system closes the antenna automatically upon starting the vehicle



*All operations are  
performed on a simple  
Wall Panel via  
3 KEYS ONLY!*

- *SAT key: Selects the satellite and starts the search*
- *Antenna lowering key*
- *ON/OFF key*
- *To be connected to the control unit via a 2 m long cable*

### Control Unit

- Power Supply: 12 Volt
- Max Consumption: 3,2 A
- Size: 136x198x62 mm
- Weight: 780 g



### AVAILABLE MODELS

63 cm



15 cm

#### FLATSAT EASY 50

OPTION - TWIN for 2 receivers

Weight: Kg. 8,8 ca  
Dish size: 49x45,5 cm

85 cm



17 cm

#### FLATSAT EASY 65

OPTION - TWIN for 2 receivers

Weight: Kg. 10,5 ca  
Dish size: 72x67 cm

104 cm



17 cm

#### FLATSAT EASY 85

OPTION - TWIN for 2 receivers

Weight: Kg. 11,6 ca  
Dish size: 91x85 cm



# FLATSAT ELEGANCE S

All tracking operations are displayed on your TV screen



## Automatic satellite antenna with universal remote control.

The first fully automatic, smart satellite system that can manage Antenna and TV with built-in Sat Receiver via a single Remote control

### All with a single Remote Control

One key only:

Switch your system (Antenna and TV) on and off by simply pressing the SYSTEM button

**1** You can control your FLATSAT ELEGANCE S antenna

**2** You can control your Teleco TY2 TV and select the desired satellite channels



#### Control unit

- Power supply: 12 Volt
- Max Consumption: 3,2 A
- 2 Scart
- 3 CINCH (AR, AL, V)
- Dimension: 256 x 185 x 62
- Weight: 1,2 Kg

- Stores all the most important satellites: Hot Bird, Astra 19, Astra 23, Eutelsat 5W, Astra 4, Astra 28, Thor
- The safety system closes the antenna automatically upon starting the vehicle

The FLATSAT ELEGANCE S consists of:

- 1 External Satellite Antenna
- 1 DVB-S2 Control Unit complete with leads
- 1 Universal pre-programmed Remote control
- 1 TY2 TV with built-in Satellite Receiver



TS8  
simplified 8-button  
remote control  
(Optional)

#### AVAILABLE MODELS



**FLATSAT ELEGANCE S50**  
OPTION - TWIN for 2 receivers  
Weight: Kg. 8,8 ca  
Dish size: 49x45,5 cm



**FLATSAT ELEGANCE S65**  
OPTION - TWIN for 2 receivers  
Weight: Kg. 10,5 ca  
Dish size: 72x67 cm



**FLATSAT ELEGANCE S85**  
OPTION - TWIN for 2 receivers  
Weight: Kg. 11,6 ca  
Dish size: 91x85 cm

# FLATSAT CLASSIC EASY



## *Automatic satellite antenna with wall panel*

Stand-alone pointing system with wall-mounted control panel, it can be coupled to any Satellite Receiver (not supplied). Especially suitable for connection to receivers TivuSat, TNT Sat, FranSat, Canal Digital, TV Vlaanderen, SKY, Canal satellite, Bis Television etc.

- Stores all the most important satellites:  
Hot Bird, Astra 19, Astra 23, Eutelsat 5W, Astra 4, Astra 28, Thor
- The safety system closes the antenna automatically upon starting the vehicle

*All operations are  
performed on a  
simple Wall Panel  
via 3 KEYS ONLY!*



- SAT key: Selects the satellite and starts the search
- Antenna lowering key
- ON/OFF key
- To be connected to the control unit via a 2 m long cable

### AVAILABLE MODELS



#### **FLATSAT CLASSIC EASY 65**

OPTION - TWIN for 2 receivers

QUAD: for 4 receivers

Weight: Kg. 9,0 ca

Dish size: 63x59 cm



#### **FLATSAT CLASSIC EASY 85**

OPTION - TWIN for 2 receivers

QUAD: for 4 receivers

Weight: Kg. 10,8 ca

Dish size: 85x78 cm



#### *Control Unit*

- Power Supply: 12 Volt
- Max Consumption: 3,2 A
- Size: 136x198x62 mm
- Weight: 780 g



*All tracking operations are displayed on your TV screen*

# FLATSAT KOMFORT S



## *Automatic satellite antenna with universal remote control.*

The first fully automatic, smart satellite system that can manage Antenna and TV with built-in Sat Receiver via a single Remote control

- Stores all the most important satellites: Hot Bird, Astra 19, Astra 23, Eutelsat 5W, Astra 4, Astra 28, Thor
- The safety system closes the antenna automatically upon starting the vehicle

The FLATSAT KOMFORT S consists of:

- 1 External Satellite Antenna
- 1 DVB-S2 Control Unit complete with leads
- 1 Universal pre-programmed Remote control
- 1 TY2 TV with built-in Satellite Receiver



*One key only:  
Switch your system  
(Antenna and TV) on  
and off by simply pressing  
the SYSTEM button*

## *All with a single Remote Control*

- 1** You can control your FLATSAT KOMFORT S antenna
- 2** You can control your Teleco TY2 TV and select the desired satellite channels



**TS8**  
*simplified 8-button  
remote control  
(Optional)*

### AVAILABLE MODELS



**FLATSAT KOMFORT S65**  
OPTION - TWIN for 2 receivers  
QUAD: for 4 receivers  
Weight: Kg. 9,0 ca  
Dish size: 63,5x59 cm



**FLATSAT KOMFORT S85**  
OPTION - TWIN for 2 receivers  
QUAD: for 4 receivers  
Weight: Kg. 10,8 ca  
Dish size: 85x78 cm



### Control unit

- Power supply: 12 Volt
- Max Consumption: 3,2 A
- 2 Scart
- 3 CINCH (AR, AL, V)
- Dimension: 256 x 185 x 62
- Weight: 1,2 Kg

# FLATSAT SKEW

**Satellite pointing system with super precise automatic adjustment of the LNB for the best signal possible via the incorporated GPS module.** The Flat Sat Skew is the ideal antenna for people travelling from East to West (Turkey to Morocco) in the Mediterranean area, without manually adjusting the LNB position of their antenna as they go. Ideal reception can only be obtained in this region by positioning the LNB horizontally in the middle of the footprint.

When moving towards the South East or South West of the Mediterranean area, the highest signal normally is only possible by climbing onto the roof and manually turning the LNB CLOCKWISE or COUNTER CLOCKWISE. With Flat Sat Skew manual adjustment is no longer necessary, the GPS-SKEW will AUTOMATICALLY detect your position via the GPS and automatically rotate the LNB to the best possible position for MAXIMUM signal strength.

## FLATSAT SKEW EASY



Control unit with wall-mounted control panel, for connection to any Satellite receivers.

- Stores 7 satellites: Hot Bird, Astra 19, Astra 23, Eutelsat 5W, Astra 4, Astra 28, Thor
- The safety system closes the antenna automatically upon starting the vehicle.
- Power Supply: 12Vdc
- Max Consumption: 3,2 A

## Automatic satellite antenna with Skew adjustment by GPS

### AVAILABLE MODEL



**FLATSAT SKEW EASY 65**  
**FLATSAT SKEW ELEGANCE S65**  
 OPTION - TWIN for 2 receivers  
 Weight: 10,8 Kg. ca



**FLATSAT SKEW EASY 85**  
**FLATSAT SKEW ELEGANCE S85**  
 OPTION - TWIN for 2 receivers  
 Weight: 12,0 Kg. ca

## FLATSAT SKEW ELEGANCES



- 1 Sat Antenna
- 2 TV with built-in receiver



All with a single Remote Control



- Satellite Antenna with all the leading satellites stored in memory..
- TY2 TV with built-in Satellite Receiver
- Universal Remote Control
- The safety system closes the antenna automatically upon starting the vehicle
- Power Supply: 12Vdc
- Max Consumption: 3,2 A approx.





*All operations are performed  
on a simple Wall Panel via  
3 KEYS ONLY!*

- SAT key: Selects the satellite and starts the search
- Antenna lowering key
- ON/OFF key
- To be connected to the control unit via a 2 m long cable

## *Automatic satellite antenna with wall panel*

Stand-alone pointing system with wall-mounted control panel, it can be coupled to any Satellite Receiver (not supplied). Especially suitable for connection to receivers TivuSat, TNT Sat, FranSat, Canal Digital, TV Vlaanderen, SKY, Canal satellite, Bis Television etc.

- All the leading satellites stored in memory: Hot Bird, Astra 19, Astra 28, Atlantic Bird 3 and other configurations on request
- The safety system closes the antenna automatically upon starting the vehicle

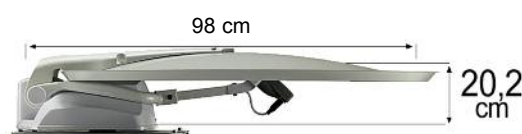


### AVAILABLE MODELS



**TELESAT 65**

Weight: Kg. 9,0 ca  
Dish size: 63,5x59 cm



**TELESAT 85**

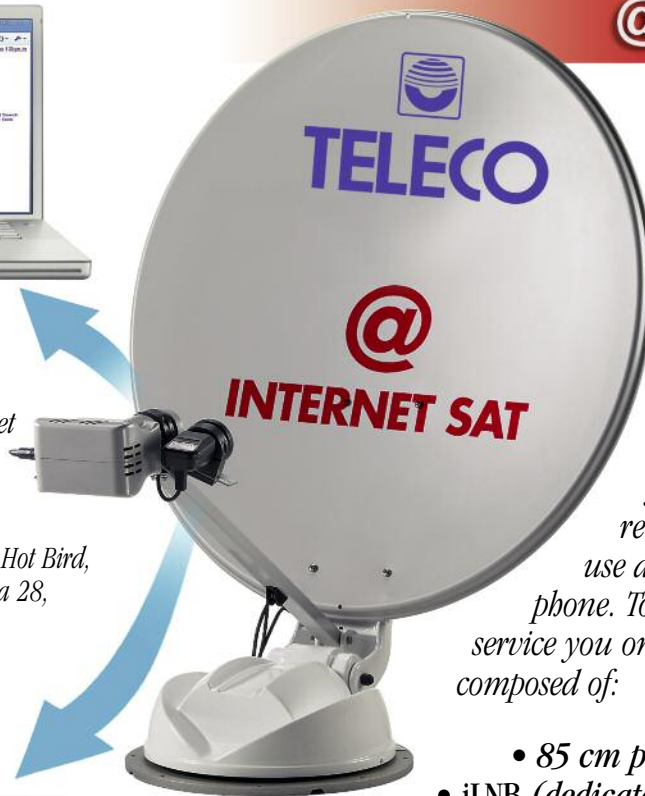
Weight: Kg. 10,6 ca  
Dish size: 85x78 cm

### Control Unit

- Power Supply: 12 Volt
- Max Consumption: 2,0 A
- Size: 136x198x62 mm
- Weight: 780 g



The Interactive LNB (iLNB) is used for receiving and transmitting phone and internet signals, whereas the second LNB (not interactive) receives TV programs transmitted from the following satellite positions: Hot Bird, Astra 19, Eutelsat 5W, Astra 4, Astra 28, Thor. The IP modem connects your PC to Magic Sat System.



With the new Internet Sat TELECO is offering you the possibility to use, even on your motor-home, all services offered on the bidirectional large band of Astra 2 Connect via ASTRA 23,5° East satellite. This means that you can not only surf the net, receive and send e-mails, but also use a telephone line, with mobile phone. To enable the net and phone service you only need to install a Sat Internet composed of:

- 85 cm parabolic dish with 2 LNBs
- iLNB (dedicated to Internet and phone lines)
- LNB (dedicated to TV)
- IP Modem



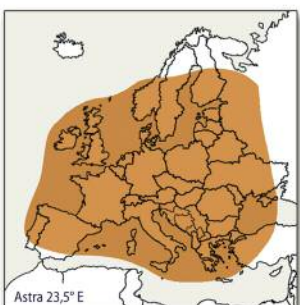
It enables Internet navigation while simultaneously watching TV programs

*Automatic satellite antenna with Internet and TV wall panel*

*Surfing the Net via satellite is now real!*

Internet SAT offers you the big advantage of surfing the net and, at the same time, to watch TV programs transmitted by either ASTRA 19°East or ASTRA 28°East only. If you wish to watch TV programs transmitted by another satellite, just select the satellite required (eg. Hot Bird) on the wall control panel and in a few moments the Internet Sat will move the antenna.

#### FOOTPRINT



#### AVAILABLE MODEL



**Internet Sat 85**  
**Internet Sat 85 Twin**  
 Dish size 91 x 85 cm  
 Weight: 15,45 Kg. ca

#### Note:

1) In order to use Internet and Telephone services a contract is necessary with an Astra2 Connect service access supplier ([www.digitaria.it](http://www.digitaria.it)).

2) Astra2 Connect services are guaranteed inside Astra23,5° Footprint.



# Satellite Antennas with Manual and Semi-automatic pointing system

- **aluminium mast:** lightweight, provides firm support for the dish, guarantees improved wind stability and enables to make the most of the available reception surface.
- Anodized corrosion proof aluminium pole with safe and reliable inside locking system.
- Lead-through box for roof, with adapter for inclined surfaces and locking ring nut for the mast.
- Satellite pointing accuracy is ensured by a fully watertight, high-precision mechanical reduction gear in oil bath.

**Semi-automatic:**  
Adjustment of the elevation through an electric motor equipped with a dish angle display.

**Manual:**  
Adjustment of the elevation through a control knob

Satellite pointing made easier thanks to the new DSF80 and DSF80/E Digital Finders.



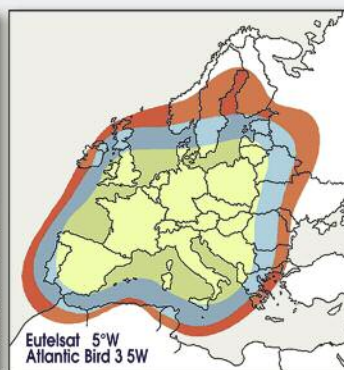
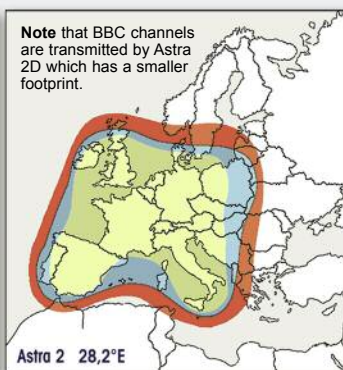
- *All dish tilting and turning operations can be conveniently controlled from inside the vehicle.*
- *During travelling, the dish is fully folded down onto the roof, to a height of just 17 - 18 cm.*

## Footprint tips to choose the correct dish size



Reception of TV and Radio signals broadcast by the 4 groups of satellites is guaranteed within the darker (footprint) areas. It should be remembered that signals become weaker when the sky is overcast or rainy, and this could lead to images with macroblocks, or the images could even disappear. When choosing the satellite system to be installed on your vehicle, make sure the dimensions of the parabola are suited for receiving the satellite signals in your viewing area.

### Footprint



**Note** that BBC channels are transmitted by Astra 2D which has a smaller footprint.

**TELECO**  
VOYAGER  
DIGIMATIC

## Manual Satellite Dish with Digital Finder equipped with electronic Inclinometer

VOYAGER DIGIMATIC has been specially designed and built by Teleco to make manual searching of digital satellites easier for the user in just a few, quick and simple operations. Currently, the biggest difficulty in manually locating a satellite broadcasting digital TV signals, is linked with the fact that digital signals are displayed on TV screens with a certain delay. Therefore the user is forced to carry out pointing in very slow movements to prevent the risks of going past the required satellite without finding it.

To solve this problem - shared by thousands of camper users - Teleco has applied the most advanced technologies in developing its new VOYAGER DIGIMATIC with DSF80/E Digital Finder, an electronic elevation meter displaying the absolute dish angle even when the vehicle is not level. DSF 80/E is a device specially designed and built for all those users who wish to be able to quickly locate their required DIGITAL satellite with a manual dish system, avoiding all the "delay" issues connected with digital broadcasting. It is also extremely helpful for all the owners of LCD television sets (instead of traditional cathode ray tube TVs) which, being also the product of digital technology, will display pictures on their screens after a certain "delay".

### Each Kit contains:

- Pre-assembled satellite antenna, complete with folding mast and connecting cables.
- Universal LNB
- Digital Finder DSF80/E
- Dish
- Installation and operation manual

### AVAILABLE MODELS

#### 52 cm long mast

**VOYAGER DIGIMATIC 50:**  
49x45,5 cm dish

**VOYAGER DIGIMATIC 65:**  
72x67 cm dish

**VOYAGER DIGIMATIC 85:**  
91x85 cm dish

### AVAILABLE MODELS

#### 33 cm short mast

**VOYAGER SM DIGIMATIC 50:**  
49x45,5 cm dish

**VOYAGER SM DIGIMATIC 65:**  
72x67 cm dish

**VOYAGER SM DIGIMATIC 85:**  
91x85 cm dish







1) Select the required satellite (eg. ASTRA 19E)



2) Raise the dish to the relevant elevation for the current location of the vehicle (see the Angle map)



3) Turn the dish SOUTHWARDS until DSF80/E emits a continuous "BEEP" sound.



4) Wait for the SAT OK diode (LED) to light up, confirming that the located satellite is the required one.



5) If a different satellite has been found, the SAT NOT OK LED will light up and the dish must be rotated again until the "BEEP" sound is heard again and the SAT OK LED lights up.



6) Optimise pointing by slowly adjusting both dish elevation and dish rotation, until the maximum number of lit LEDs is obtained on the LEVEL indicator.





## Manual Satellite Antenna with Graduated Scale

VOYAGER G3 is equipped with a Graduated Scale enabling the angle of the dish to be set extremely quickly, while remaining inside the vehicle. To correctly set the angle, it is important that the vehicle is level, if it is not you must add to or subtract the vehicle angle from that of the dish. After setting the correct angle, you just need to turn the dish so it is pointing southwards using the internal mast, and optimise positioning by checking the picture on your TV screen.

To make Digital Satellite pointing ever faster and easier, install our new DSF80 (optional) Digital Finder

### Each Kit contains:

- Pre-assembled satellite antenna, complete with folding mast and connecting cables.
- Universal LNB
- Dish
- Installation and operation manual

### AVAILABLE MODELS

#### 52 cm long mast

**VOYAGER G3 50:**  
49x45,5 cm dish

**VOYAGER G3 65:**  
72x67 cm dish

**VOYAGER G3 85:**  
91x85 cm dish

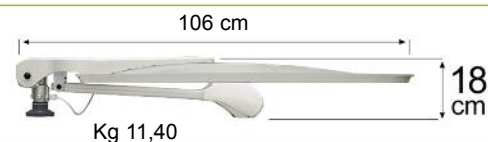
### AVAILABLE MODELS

#### 33 cm short mast

**VOYAGER G3 SM 50:**  
49x45,5cm dish

**VOYAGER G3 SM 65:**  
72x67 cm dish

**VOYAGER G3 SM 85:**  
91x85 cm dish





## Semiautomatic motor-driven satellite antenna



*MOTOSAT is a semiautomatic satellite antenna system with a 12 V electric motor that makes it easy to raise and lower the antenna, thus making tracking with the satellite faster. The entire electronic mechanism has been incorporated in an ergonomic control knob with two buttons that allow the user to raise and lower the antenna as desired.*



*Also incorporated on the control knob is a 2-figure display that provides instant information on dish angle. MotoSat also features a microprocessor that can save the last dish angle, thus making tracking operation extremely simple.*



## MOTOSAT DIGIMATIC



*This model features a digital DSF80/E tracking unit with Beeper and LED signal indicator.*



## MOTOSAT

*Equipped with a 2-figure display that provides information on dish angle.*



### AVAILABLE MODELS

52 cm long mast

**MOTOSAT DIGIMATIC 85**

**MOTOSAT DIGIMATIC 65**

33 cm short mast

**MOTOSAT DIGIMATIC SM 85**

**MOTOSAT DIGIMATIC SM 65**

### AVAILABLE MODELS

52 cm long mast

**MOTOSAT 85**

**MOTOSAT 65**

33 cm short mast

**MOTOSAT SM 85**

**MOTOSAT SM 65**



**MOTOSAT 65**  
63,5 x 59 cm Dish Kg 8,0



**MOTOSAT 85**  
85 x 78 cm Dish Kg 10,2

## **Portable satellite kit** *Easy to assemble and disassemble... And it takes up very little room when stored.*

The KIT CARRY SAT was designed expressly to be assembled and reassembled every time the vehicle is moved, or even every night. The pre-fitted dish has an LNB boom that can be reclined and a pole fixing bracket divided into two sections, allowing the entire kit to be stowed in just a few seconds. All Carry Sat models can be connected to any kind of satellite receiver. Use the FSAT1 or DSF 80 finders to facilitate pointing with the digital receiver.



*It is provided with a rotating top section for easier dish tracking.*



*This kit consists of the following:*

- Aluminium (TP3 ALU) tripod which is opened and closed like an umbrella.
- Preassembled 65 or 80 cm dish with tiltable LNB supporting arm
- Low-noise universal LNB
- 10 m cable with connectors
- 3 pegs for locking to the ground

**Available models:**

- **CARRY SAT ALU 80** with 80 cm dish
- **CARRY SAT ALU 65** with 65 cm dish
- The TP3ALU model tripod is also available

## **Digital Satellite precision finders**

**User's instructions:**

- 1) Select the required satellite (e.g. ASTRA 19E )
- 2) Raise the dish to the relevant elevation for the current location of the vehicle (see the Angle map)
- 3) Turn the dish SOUTHWARDS until DSF80/E emits a continuous "BEEP" sound.
- 4) Wait for the SAT OK diode (LED) to light up, confirming that the located satellite is the required one.

- 5) If a different satellite has been found, the SAT NOT OK LED will light up and the dish must be rotated again until the "BEEP" sound is heard again and the SAT OK LED lights up.
- 6) Optimise pointing by slowly adjusting both dish elevation and dish rotation, until the maximum number of lit LEDs is obtained on the LEVEL indicator.



**DSF 80**  
Finder with 8  
satellites and  
Signal Level Indicator.  
Compatible with all  
manual satellite systems.



**DSF 80/E**  
Finder with 8  
satellites, Signal  
Level Indicator and  
Electronic Dish Elevation  
Indicator. This model can  
only be used on Voyager Matic  
and Voyager Digimatic systems - equipped with a  
special Electronic Angle Detector system.



## Motosat Kit

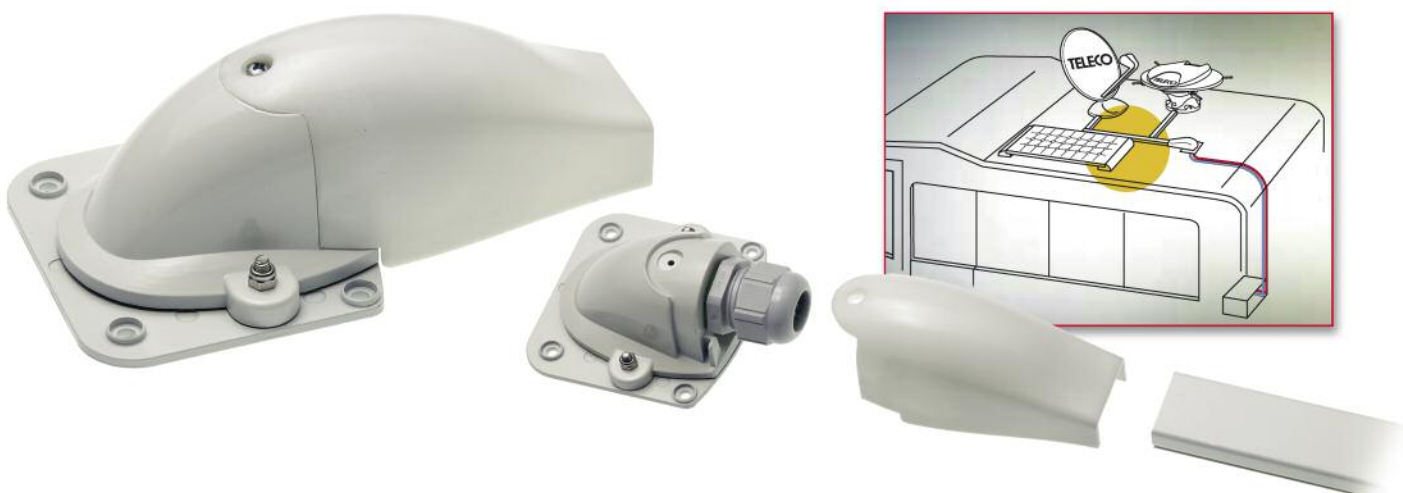
This kit allows you to motorize a Voyager manual system simply by replacing the elevation adjustment knob and using a 12 V battery connection.



The motosat kit is equipped with a 2-button electric motor allowing you to raise and lower the antenna. The control microprocessor shows the degree of elevation of the antenna on a display for faster and easier satellite tracking.



## SPCA Aluminium lead-through box for roof



### TS8

simplified 8-button remote control. Compatible with all Teleco TY2 TV-sets and the automatic ELEGANCE S and KOMFORT S antennas



SPC Cable inlet seal



### CAD/AS

Coupler suitable for connecting digital receivers to a Magic Sat 2002A or a Magic Sat Digital Plus CI Control Box.

### FSAT 1 SATFINDER 950 - 2050 Mhz

Pointer signal meter with incorporated beep. Particularly recommended for controlling the dish in Carry Sat systems. Fed by coaxial cable coming from the receiver.



## Digital Sat Receiver



### SD Digital Satellite Receiver with Card included



- Power supply: 12 Volt and 230 Volt
- Frequency: 950-2150 MHz
- 2 Nagra and Conax SMART Card readers
- 1 MIR remote control extender
- 2 SCART sockets
- TivùSat automatic channel sorting
- 1 CINCH Audio socket
- 1 S/PDIF Audio digital socket
- 1 Modem V.90 socket
- Software upgrade via satellite
- Teletext and Subtitle
- Consumption: 9.0 W (in operation), 0.7 W (in Standby mode)
- Dimensions: 260 x 190 x 46 mm

#### ODE 711

This receiver allows the user to see all programmes transmitted by the Tivù Sat platform from the 13° East HotBird satellite.  
The included card has no expiry date.



CANAL

READY

HD TV

PVR / ready



## TECHWOOD

Techwood RS 785 CHD  
TNT SAT HD 12 Vdc Receiver

**TNT SAT**  
LA TNT GRATUITE  
PAR LE SATELLITE



#### General specifications

- 4000 Channels
- OSD in French/English
- Automatic and manual search
- Automatic channel sorting
- Parental lock
- Automatic muting
- Volume on remote control
- Teletext
- Subtitle
- 7 days EPG
- Favorite lists
- Signal quality indicator
- Display with Time and Channels
- PVR recording and playback function via USB
- MIR remote control extender

#### Connections

- 1 MIR remote control extender
- 1 Scart socket
- 1 USB 2.0 port for PVR
- 1 Optical Audio Digital output
- 1 RCA Audio Video output
- 1 HDMI output

#### PVR function via USB

It is possible to play mp3 files, jpeg video, mKv, h 264.  
It is possible to record TV programs with TIME SHIFT, EPG and  
TIMER functions on a USB memory stick or an external hard disk

- Power supply: 12 Vdc
- Consumption (in operation): 7.5W
- Consumption (in standby mode): 1W
- Dimensions: 231x138x38 mm
- Net weight: 920 g



## FORCE HD CI+

*Digital SAT Receiver HDTV  
with 1 CI+ port for CI or  
CI + modules*

FORCE HD CI+ is a Digital SAT Receiver, ideal for receiving both HDTV programs up to 1080 i and SD programs. The CI+ port is compatible with HD + modules and cards and with many CI modules such as VIACCES, NAGRA (Tivù Sat) etc. with PAY-TV CARDS of several European Broadcasters. It is equipped with many outputs (1 SCART, 2 CINCH Audio + 1 CINCH Video, 1 Audio digital coaxial S/P DIF, 1 HDMI) allowing the user to connect to any kind of TV with the greatest flexibility. Through the USB 2.0 port it is possible to record and play many programs using a suitable Memory Stick; furthermore, the receiver features the Time-Shift option allowing the user to stop watching a program temporarily and to resume it later from the very same point it was interrupted.

**HDMI** HIGH/DEFINITION MULTIMEDIA INTERFACE  
**DOLBY**  
**USB 2.0**



### Specifications:

- MPEG-2, MPEG-4, H.264 and full DVB
- Video Resolution : 576 i, 576 p, 720 p, 1080 i, 1080 p
- 1 support CI +
- 4,000 channels
- 8 favourite lists
- Parental lock
- Teletext
- Multi-lingual subtitling
- Multi-lingual support (OSD)
- Automatic and manual channel scan options
- DiSEqC 1.0, 1.1, 1.2
- 8 Timers for recording
- 3 Electronic games
- Low power consumption < 1 W in stand-by
- Tuner with Loop-Through
- 1 HDMI output
- 1 SCART (CVBS, RGB)
- 3 CINCH (V, A, L, R)
- 1 Audio Digital Output S/PDIF
- 1 USB 2.0 port for recording
- Power supply: 12 VOLT
- Dimensions: 230 x 155 x 60 mm
- Weight: 730 gr

### Cam Modules



**Tivù Sat CAM Module**  
with Smart Card included. Suitable for watching also HD Tivù Sat programs transmitted by Satellites with the Force HD CI+ Receiver.

**CAM Modules**  
suitable for watching PAY TV programs with the HD+ or Sky Deutschland Smart Card (not supplied)

## Digital Terrestrial Receiver

**DVB - T Digital Terrestrial Minireceiver**  
for Free to Air programs

### RDT1000G PVR/12

This Receiver can record films and digital programmes on a USB flash drive (not supplied). It can also play photos and films stored on the flash drive itself on the TV.

- 1000 programmable TV and Radio channels
- 8 favourite lists
- Multilingual OSD
- Automatic/Manual channel search
- Teletext and subtitles
- Loop-through antenna passage
- LCN channels sort function
- Software update via USB port
- USB port for recording pictures and TV programs
- Games, calendar, calculator the SCART JACK of your TV set.
- Power supply: 12 Vdc or 230 Vac/50Hz

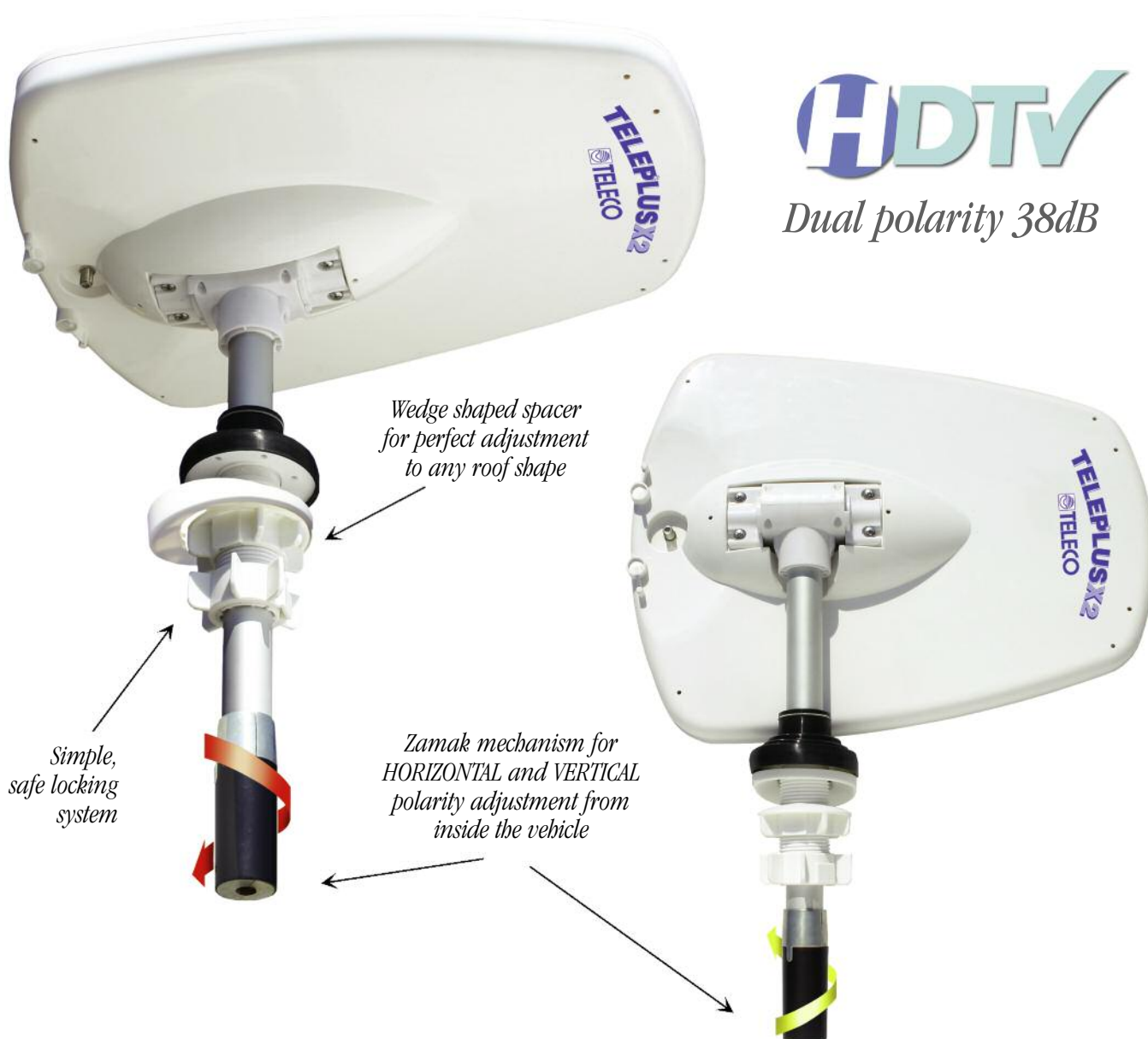


## *Directive Antennas for Digital Terrestrial Signals*

*This antenna was designed and manufactured starting from the experience and great success we gained with the TELEPLUS antenna during many years. Great care was given to increasing the gain curve, which resulted in an even higher sensitivity to weak signals. Thanks to the POLARITY DIRECTION MECHANISM, it is possible to receive all TV (Digital and Analog) signals which are transmitted on both HORIZONTAL and VERTICAL polarity with top performance (Digital broadcasting caused the VERTICAL polarity signals to increase in some countries such as Italy and UK). The set includes a low-noise amplifier with adjustable gain which operates at 12/230 Volt.*

# HDTV

*Dual polarity 38dB*





## Teleplus X2 /39U

- **DOUBLE POLE**
- **High gain 38 dB (with amplifier)**

Gain with amplifier: 38 dB channels 21-69 (UHF)

Power supply: 12 Vdc-230 Vac

39 cm mast for installation inside a suspended wall unit

Compatible with **LTE Rejection Filters** to avoid any possible interference caused by the new 4G Smartphones.



**DVB T**

Horizontal reception diagram



## Teleplus X2 /165VU Teleplus X2 /110VU

- **DOUBLE POLE**
- **High gain 38 dB (with amplifier)**

Gain with amplifier:

38 dB channels 21-69 (UHF)

22 dB channels E5-E12 (VHF BIII)

20 dB channels E2-E4 (VHF BI)

Power supply: 12 Vdc-230 Vac

**Teleplus X2/165 VU:** Mast 165 cm

**Teleplus X2/110 VU:** Mast 110 cm

Compatible with **LTE Rejection Filters** to avoid any possible interference caused by the new 4G Smartphones.



**DVB T**



Horizontal reception diagram

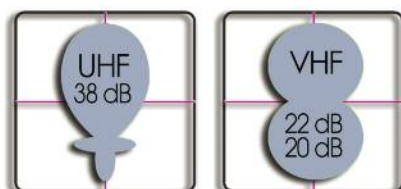




HDTV

TNT  
18 CHAINES GRATUITES

DVB-T



Horizontal reception diagram

## Directive Antennas for Digital Terrestrial Signals 38 dB

- High Gain for reception of even the weakest signals
- Exceptionally good directional adjustment to suppress noise
- Zamak mast connector
- Gain with adjustable Amplifier  
UHF 38 dB - VHF-B3 22 dB - VHF-B1 20 dB
- Power input 12/24 Volt or 230 Volt
- Recommended use with telescopic mast SF165 (Optional)

Compatible with LTE Rejection Filters to avoid any possible interference caused by the new 4G Smartphones.

### Kit content

- 1 UHF - VHF (B3) dish
- 1 Adjustable gain amplifier with 2 TV outputs
- 1 Ø 30 mast connector with 5 m cable



## SF 165 - SF 50 TELESCOPIC MAST FOR CAMPERS AND CARAVANS

It allows you to easily beam your antenna without getting out of your vehicle. Tightness ensured by double O ring system. Anodized corrosion-proof aluminum. Full outfit of all fittings for a very easy installation.

### TECHNICAL SPECIFICATIONS

**SF 50:** Length: 50 cm  
**SF 165:** Length: 165 cm  
 Diameter: 30 to 34 mm  
 ( with adapter built-in )  
**SF 165:** Weight: 1,1 Kg  
**SF 50:** Weight: 0,5 Kg



HDTV



TNT  
10 CHANES GRATUITES

DVB-T

**TELEPLUS**

Directive Antennas for Digital Terrestrial Signals 36 dB

*Compatible with LTE Rejection Filters to avoid any possible interference caused by the new 4G Smartphones.*

#### TECHNICAL DATA

Channels: 2 - 4 5 - 12 21 - 69  
Gain with Amplifier: 20 dB 22 dB 36 dB  
Power supply: 12 / 24 Volt 220 Volt  
Length: 50,5 cm  
Width: 40 - 70 cm  
Weight: 1,8 Kg.

#### PACKAGE CONTENTS

- 1 Antenna with bracket for mounting to mast ( 25 - 50 mm dia ) .
- 1 Amplifier with 2 TV outlets, and adjustable gain
- 5 m Coaxial cable 75 Ohm with connector

## WEEKEND

Omni-directional Antennas for Digital Terrestrial Signals



TNT  
10 CHANES GRATUITES

DVB-T

#### TECHNICAL DATA

Channels: 2 - 4 5 - 12 21 - 69  
Gain with Ampl.: 0 dB 9 dB 26 dB  
Power supply: 12 / 24 Volt 220 Volt  
Diameter: 28 cm..  
Height: 12 cm.  
Weight: 0,7 Kg.

#### PACKAGE CONTENTS

- 1 Antenna with universal bracket for roof or mast ( 32 - 34 dia ) mounting.
- 1 Amplifier with 2 TV outlets, and adjustable gain
- 5 m Coaxial cable 75 Ohm
- 3 Coaxial connectors

## YACHTING11

Omni-directional Antennas for Digital Terrestrial Signals



TNT  
10 CHANES GRATUITES

DVB-T

#### TECHNICAL DATA

Channels: 2 - 4 5 - 12 21 - 69  
Gain with Ampl.: 3 dB 16 dB 26 dB  
Power supply: 12 / 24 Volt 220 Volt  
Diameter: 38 cm..  
Height: 14,5 cm.  
Weight: 1,0 Kg.

#### PACKAGE CONTENTS

- 1 Antenna with universal bracket for roof or mast ( 32 - 34 dia ) mounting.
- 1 Amplifier with 2 TV outlets, and adjustable gain
- 5 m Coaxial cable 75 Ohm
- 3 Coaxial connectors

HDTV

## WALKIE22

Omni-directional Antennas for Digital Terrestrial Signals



TNT  
10 CHANES GRATUITES

DVB-T

#### TECHNICAL DATA

Channels: 2 - 4 5 - 12 21 - 69  
Gain with Ampl.: 5 dB 22 dB 26 dB  
Power supply: 12 / 24 Volt 220 Volt  
Diameter: 38 - 88 cm..  
Height: 14,5 cm.  
Weight: 1,2 Kg.a

#### PACKAGE CONTENTS

- 1 Antenna with universal bracket for roof or mast ( 32 - 34 dia ) mounting.
- 1 Amplifier with 2 TV outlets, and adjustable gain
- 5 m Coaxial cable 75 Ohm
- 3 Coaxial connectors



WING  
WING11  
WING22

*Rotation on 3 axes  
for perfect alignment  
to the roof*



## *Omni-directional High Speed TV Antennas*

*The Wing, Wing 11 and Wing 22 antenna series has been designed to receive all signals. Special care has been devoted to designing a highly aerodynamic shape: these antennas can be installed on the fastest campers. Each antenna has a special, ergonomic foot to allow the antenna to be positioned in any direction and facilitate installation on even the most streamlined roofs of the latest-generations campers and caravans.*





## WING Digital terrestrial

### 360° Omni-directional TV Antenna 26 dB UHF - 9 dB VHF- B3

MINI-antenna (diameter: 31 cm only) specially designed to receive UHF channels. However, a special circuit configuration and a high-gain amplifier make it possible to receive VHF B3 programs, too.

Compatible with LTE Rejection Filters to avoid any possible interference caused by the new 4G Smartphones.

Gain with ampl.: CH 2-4 0 dB  
CH 5-12 9 dB  
CH 21-69 26 dB  
Power supply: 12/24 Volt – 230 Volt  
Diameter: 31 cm  
Height: 16,5 cm  
Weight: 1Kg

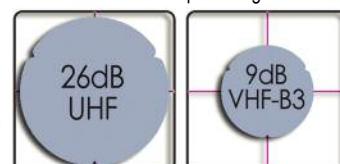
#### PACKAGE CONTENTS

- 1 Antenna, complete with 5 m coax cable and 3 F connectors
- 1 Adjustable gain amplifier, with 2 outlets for 2 TV sets, powered off 12, 24 and 230 Volts



12  
VOLT  
230

Horizontal reception diagram



## WING11 Digital terrestrial

### 360° Omni-directional TV Antenna 26 dB UHF - 16 dB VHF- B3

A combination of electronic amplifier high sensitivity and special antenna design enable you to receive TV programs at the lowest frequencies, too, while maintaining outside dimensions within 38 cm.

Compatible with LTE Rejection Filters to avoid any possible interference caused by the new 4G Smartphones.

Gain with ampl.: CH 2-4 3 dB  
CH 5-12 16 dB  
CH 21-69 26 dB  
Power supply: 12/24 Volt – 230 Volt  
Diameter: 38 cm  
Height: 16,5 cm  
Weight: 1,2 Kg

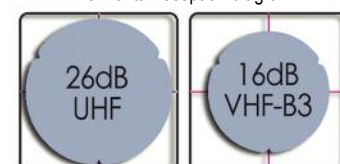
#### PACKAGE CONTENTS

- 1 Antenna, complete with 5 m coax cable and 3 F connectors
- 1 Adjustable gain amplifier, with 2 outlets for 2 TV sets, powered off 12, 24 and 230 Volts



12  
VOLT  
230

Horizontal reception diagram



## WING22 Digital terrestrial

### 360° Omni-directional TV Antenna 26 dB UHF - 22 dB VHF- B3

This DUAL POWER antenna is the result of the combination of two antennas: excellent performance is guaranteed also for the lowest-frequency programs (VHF - B3). Extremely weak signals can be received thanks to a low-noise amplifier.

Compatible with LTE Rejection Filters to avoid any possible interference caused by the new 4G Smartphones.

Gain with ampl.: CH 2-4 8 dB  
CH 5-12 22 dB  
CH 21-69 28 dB  
Power supply: 12/24 Volt – 230 Volt  
Diameter: 38 cm  
Height: 16,5 cm  
Weight: 1,4 Kg

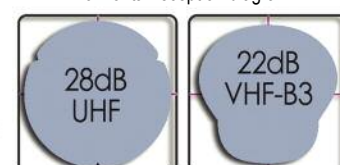
#### PACKAGE CONTENTS

- 1 Antenna, complete with 5 m coax cable and 3 F connectors
- 1 Adjustable gain amplifier, with 2 outlets for 2 TV sets, powered off 12, 24 and 230 Volts



12  
VOLT  
230

Horizontal reception diagram



# Mobile TV **LED** Mobile TV

*Specially  
designed for Campers  
and Caravans*







*All Terrestrial and Satellite TV  
programs via a single TV set with  
no need for external Decoders*

## Why a Separate DVB-S2 board?

- Because up to 4 or 5 satellite channels can be stored without any list interference problems.
- Because changing channel is much quicker.
- Because it has a dedicated CI+ port for Satellite encrypted programs only in addition to the terrestrial CI+ port, so 2 Smart-Cards can be used at the same time.

- Twin HD Board: 1 for DVB Satellite - S2  
1 for DVB-T MPEG 4 Terrestrial
- Twin CI+ port for HD and SD CAM Modules for both Satellite and Terrestrial encrypted programs
- Twin USB 2.0 port for both Satellite and broadcast Recording and Playing ( PVR )
- 4000 SD and HD Satellite TV and Radio Channels
- 2000 SD and HD Terrestrial TV and Radio Channels
- All the models are equipped with a Multifunction IR (infrared) sensor for the user to control both the TV and the automatic Flat Sat Elegance S and Flat Sat Komfort S Satellite Antenna by using a single remote control
- Time-Shift function in all the models, enabling to temporarily stop a program and then to resume watching it later on, starting from the exact point of interruption. This is possible by using the USB ports provided on the TV to record and replay programs by plugging a suitable flash drive into the USB port.
- Anti-reflection screens for quality viewing also in high-brightness environments
- Wide vertical and horizontal viewing angle
- 4 sizes are available:  
TY2/19D 19" - TY2/22D 22" - TY2/24 24" - TY2/32 32"



				
<b>Model</b>	<b>TY2/19D</b>	<b>TY2/22D</b>	<b>TY2/24</b>	<b>TY2/32</b>
Screen size	19" 41cm	22" 56cm	24" 61cm	32" 82cm
Max Resolution	1366 x 768	1920x1080	1920x1080	1920x1080
Screen format	16:9	16:9	16:9	16:9
Contrast	1000:1	1000:1	5000:1	4000:1
Brightness	250 nits	250 nits	300 nits	400 nits
No. of colours	16,7 M	16,7 M	16,7 M	16,7 M
Response Time	5 mS	8 mS	12 mS	6,5 mS
Viewing angle (L-H/R-H, UP/DOWN)	170/160	178/178	178/178	178/178
<b>DVB-T Terrestrial Reception</b>				
HD Standard	MPEG 4	MPEG 4	MPEG 4	MPEG 4
TV/Radio Channels	2000	2000	2000	2000
CI+ Port	•	•	•	•
Favourite lists	4	4	4	4
USB 2.0 Port	•	•	•	•
Automatic search	•	•	•	•
LNC Channel Sorting	•	•	•	•
Teletext service	•	•	•	•
<b>DVB-S2 Satellite Reception</b>				
HD Standard	DVB-S2	DVB-S2	DVB-S2	DVB-S2
TV/Radio Channels	4000	4000	4000	4000
CI+ Port	•	•	•	•
Favourite lists	8	8	8	8
USB 2.0 Port	•	•	•	•
Teletext service	•	•	•	•
<b>DVD</b>	•	•	-	-
<b>General Features</b>				
OSD	D, UK, F, I, S, P	D, UK, F, I, S, P	D, UK, F, I, S, P	D, UK, F, I, S, P
Subtitles	•	•	•	•
Timer	•	•	•	•
Parental Lock	•	•	•	•
Game console	•	•	•	•
Audio power	2x3 W	2x3 W	2x3 W	2x8 W
<b>Connections</b>				
Satellite RF	F Female	F Female	F Female	F Female
Terrestrial RF	IEC 9,5 Female	IEC 9,5 Female	IEC 9,5 Female	IEC 9,5 Female
CI + Ports	2	2	2	2
HDMI	1	1	1	1
Scart	1	1	1	1
A/V Inputs	1xMini A/V 1xMini YpbPr	1xMini A/V 1xMini YpbPr	1xMini A/V 1xMini YpbPr	1xMini A/V 1xMini YpbPr
Audio OUT	1 Headphone Jack	1 Headphone Jack	1 Headphone Jack	1 Headphone Jack
USB 2.0 Ports	2	2	2	2
PC IN	1xMini+VGA	1xMini+VGA	1xMini+VGA	1xMini+VGA
Infrared Out	•	•	•	•
<b>Power input</b>				
Voltage	12Vdc/230Vac	12Vdc/230Vac	12Vdc/230Vac	12Vdc/230Vac
Operating Consumption	1,8 - 2,3 A	2,7 - 3,2 A	2,4 - 3,3 A	6,0 - 7,0 A
St-by Consumption	<0,5W	<0,5W	<0,5W	<0,5W
<b>Dimensions / Weight</b>				
Width / Height / Depth w/o foot support	460X291X53	526X331X54	582X362X54	772X483X66
Width / Height / Depth with foot support	460X335X175	526X371X175	582X402X175	772X540X195
Net weight with foot	3,60 Kg	3,80 Kg	4,60 Kg	9,0 Kg



**Group  
TELECO**



**TELECO** SPA

ITALY

Via E. Majorana 49  
48022 LUGO ( RA )  
Tel. + 39 0545 25037  
Fax. + 39 0545 32064  
mail: info@telecogroup.com  
www.telecogroup.com  
Assistenza 899 899 856

**TELECO** GmbH

DEUTSCHLAND

82041 Deisenhofen  
Tel. 08031 98939  
Fax 08031 98949  
telecogmbh@telecogroup.com  
www.telecogroup.com

**TELECO** SAS

FRANCE

3, Impasse des Iles  
ZA La Maladière  
07300 St Jean de Muzols  
mail: contact@telecogroup.fr  
www.telecogroup.fr

**Telair** SRL

ITALY

Via E. Majorana 49  
48022 LUGO ( RA )  
Tel. + 39 0545 25037  
Fax. + 39 0545 32064  
mail: telair@telecogroup.com  
www.telecogroup.com

## IN EUROPE:

**GREAT BRITAIN - SCAN TERIEUR LTD**  
30, The Metro Centre, Tolpits Lane - Watford,  
Herts - England - WD18 9XG  
Tel. 01923 800353 - Fax 01923 220358  
e-mail: info@scan-terieur.com  
www.scan-terieur.com

**THE NETHERLANDS/BELGIUM/LUXEMBOURG/DENMARK/SWEDEN**  
**KARMAN TRADING**  
Tel. +31 ( 0 ) 341 722450 - Fax +31 ( 0 ) 341 722451  
e-mail: info@karmantrading.eu  
www.karmantrading.eu

**FRANCE - TELECO SAS**  
3, impasse des Iles - ZA La Maladière  
07300 St Jean de Muzols - France  
Tél. 04 75 08 49 17 - Fax 09 70 32 83 00  
contact@telecogroup.fr  
www.telecogroup.fr  
**SERVICE COMMERCIAL :**  
Jean-Philippe Bleys  
Tél. 02 48 58 03 67 Fax 02 48 58 35 85  
teleco.telair@bleysetd.com  
**Service Technique :**  
Tél. 06 83 31 44 05 ou 04 75 08 28 25

**ESPAÑA - NAUCCA CARAVANING S.A.**  
Polígono Industrial CAN ROQUETA 2  
Calle Can Lletget, n° 2 - 08202 Sabadell - Barcelona  
Tel. 937 457 054 - Fax. 937 254 484  
e-mail: comercial@naucca.com  
**Servicio técnico:** Fills de Rocha i Lopez, S.L- C/Goya,4  
08903 L'Hospitalet de Llogrebat - Barcelona - España  
Tel. 933 333 753 - Fax 933 337 236  
fillsrocha@fillsrocha.com

**ÖSTERREICH - TELECO GmbH**  
82041 Deisenhofen - Deutschland  
Tel. 0049 8031 98939 - Fax. 0049 8031 98949  
telecogmbh@telecogroup.com  
www.telecogroup.com  
**SERVICE 0900 94 94 70**

**DEUTSCHLAND - TELECO GmbH**  
82041 Deisenhofen - Deutschland  
Tel. 08031 98939 - Fax 08031 98949  
telecogmbh@telecogroup.com  
www.telecogroup.com  
**VERTRETUNG:**  
**Zimmer - Technik für Mobile Freizeit**  
Raiffeisenstr. 6 - 64347 Griesheim  
Tel. 06155 797873 - Fax 06155 797871  
info@zimmer-mobiltechnik.de  
**SERVICE 08921129997**

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